Table S1: Characteristics of independent variables

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Variable | Previous literature having identified factors associated with sedentary times | Characteristic | Label / unit | | |
|  |  |  |  | | |
|  |  |  | **0** | **1** | **2** |
|  |  |  |  |  |  |
| Traffic safety around school | Mantjes et al. 2012; Stierlin et al. 2015(1, 2) | binary | High | Middle or low | - |
| Number of breaks longer than 15 minutes | Mantjes et al. 2012; Morgan et al. 2016(2, 3) | scale |  | | |
| Rules concerning media use in school | Assumption according to Pate et al. 2011(4) | binary | Always | Sometimes or never | - |
| Extracurricular sports programs | Morton et al. 2016(5) | Scale | Number of sport lessons / day | | |
| Availability of play equipment | Mantjes et al. 2012; Ridgers et al. 2013; Stierlin et al. 2015; Morton et al. 2016(5, 2, 6, 1) | binary | Always | Sometimes or never | - |
| Neighborhood quality | Levin et al. 2014; Maitland et al. 2013; Kaushal et al. 2014(7–9) | ordinal | High | Middle | Low |
| Presence of media devices in bedroom | Kaushal et al. 2014; Salmon et al. 2011; Brindova et al. 2014(10, 7, 11) | binary | No | Yes | - |
| Rules concerning media at home | Pate et al. 2011(4) | binary | Yes | No | - |
| Media consumption of parents | Salmon et al. 2011(11) | Scale | scorepoints | | |
| Encouragement for non-sedentary activities | Bauer et al. 2008; Maitland et al. 2013; Brindova et al. 2014(12, 10, 8) | binary | More than sometimes | Sometimes or never | - |

Table S2: Overview on levels of variables

|  |  |
| --- | --- |
| **Level** | **Variables** |
| **Level I: repeated measurements** | * Sedentary behavior (4 outcome variables) * Minutes of MVPA * Number of breaks longer than 15 minutes * Participation at extracurricular sports programs in schools |
| **Level II: Individual data** | * Sex, Age, SES * Traffic safety around school * Rules concerning media use during breaks * Unrestricted availability of play equipment * Neighborhood quality * Presence of media devices in bedroom * Rules concerning media use at home * Media consumption of parents * Encouragement for non-sedentary activities |

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